Megapoxy^{*}

Deep Pour Grout

Heavy Duty Deep Pour Epoxy Grout

Technical Data Sheet

DESCRIPTION	Megapoxy Deep Pour Grout is a two component, 100% solids, resin based, solvent-free, flowal epoxy grout, designed specifically for use in civil engineering applications, where developmen high compressive and impact strength is required. Suitable for deep void grouting where a sin pour application is required.	
RECOMMENDED APPLICATIONS	 Pile Repair & Restoration Locking Bearings Rail Track Grouting Core Hole Filling Locking PT Cables 	 High Load Vibration Grouting Machinery Grouting Bridge Bearing Pads Floor Repairs Filling Truncation Pockets
PROPERTIES	Mixing Ratio by Volume Work Time at 25°C: Minimum Cure Time at 15°C Minimum Cure Time at 25°C Minimum Cure Time at 35°C Minimum Application Temperature Mixed Viscosity at 25°C Mixed S.G. at 25°C Colour Part A Colour Part B Appearance Mixed	5 Part A to 1 Part B 60 minutes 48 hours 24 hours 12 hours 10°C 60000cps 1.71 Grey Amber Grey
CURED PROPERTIES	Ultimate Compressive Strength - ASTM C579 Yield Compressive Strength - ASTM C579 Bond Strength Concrete - ASTM D4541 Tensile Bond Strength Steel - ASTM D897 Modulus of Elasticity - ASTM C579 Flexural Strength - ASTM D790 Tensile Strength ASTM D638 Tensile Lap Shear Strength - ASTM D1002 Hardness - Shore D - ASTM D2240-00 Dielectric Strength (kV/mm) Surface Resistivity (Ohm) - ASTM D257 Volume Resistivity (Ohm.cm) Peak Exotherm Temp - ASTM D2471	125MPa 80MPa >3MPa 19MPa 3.3GPa 72MPa 38MPa 9MPa (steel to steel) 88 52.7 10 ¹² 1.25x10 ¹¹ 40.5°C (415ml)

3 Sefton Road, Thornleigh NSW 2120 Australia P: +61 (02) 9875 3044 E: info@megapoxy.com | megapoxy.com



VIVACITY ENGINEERING PTY LTD | ABN: 78 305 545 664

Deep Pour Grout



Technical Data Sheet

CHARACTERISTICS

- Low VOC
- 2 Part Pre-Metered Kits
- Mixes Easily Mechanically
- Low Exotherm
- Flowable, can be poured under 20mm plates
- High strength permanent bonds
- Excellent tensile and compressive strengths, superior to concrete
- Excellent chemical resistance
- Good strength retention after prolonged immersion in water

LAYER THICKNESS

Minimum Grout Depth: Maximum Grout Depth: 20mm 300mm*

*To discuss your application and project requirements, please contact the Technical Department for further information and required pour thickness.

STRENGTH DEVELOPMENT

57MPA Day 1: 80MPa Day 2: Day 7: 86MPa *ASTM C579-23

SURFACE PREPARATION

Concrete

Concrete should be free from grease and oil. If necessary, clean with industrial heavy duty degreaser. When clean, remove surface laitance. This is best done by mechanical abrasion such as scabbling, grit blasting or grinding. If this is not possible acid etching must be carried out. Mix concentrated hydrochloric acid with equal volume of water and spread at the rate of 0.5 litre per square meter of concrete surface. Allow to react for about 10 minutes and wash the area thoroughly and scrub with a stiff bristled broom to remove loose sand. Allow to dry for 24 hours. For maximum adhesion the concrete should be surface dry.

Metal Surfaces

Metals should be grit blasted to AS 1627.2.2002. If this is not possible, mechanically abrade the surface to a clean, bright metal surface. Once this abrasion is complete, degrease the surface by flooding with an industrial grade degreaser. Wire brushing is not entirely satisfactory and gives minimal adhesion only.

Coated Surfaces

It is recommend to remove all coatings prior to bonding, bonding to coated surfaces will give inferior bond strengths compared to bonding directly to a prepared substrate.

The surface may be either flame-cleaned, or mechanically treated with a scutching tool, to remove all traces of paint. Complete the preparation by diamond grinding or scabbling.

Steps should be taken to remove all paint and/or galvanizing. Good quality paint stripper should be used, followed by grit blasting or grinding to a bright metal finish.

3 Sefton Road, Thornleigh NSW 2120 Australia | P: +61 (02) 9875 3044 | E: info@megapoxy.com | megapoxy.com





Deep Pour Grout



Technical Data Sheet

MIXING PROCEDURE	Add the entire contents of Part B into the Part A pail, there is enough space to combine both parts in the Part A container.	
	Mix the two parts together thoroughly for 3 minutes, using a mechanical stirrer on a low speed of 200rpm - 400rpm, making sure to scrape the base and corners of the pail.	
	Do not move the mixer up and down.	
	Once 3 minutes is up, scrape the sides of the pail with a straight edge to remove unmixed Part A from the sides of the pail. Do not use the mixer head to scrape the sides.	
	Mix for another 2 minutes, if there is a ring of Part B around the edge of the pail, lift the mixer slightly and lean the mixer back approximately 30°, this will change the resin flow and should pull the Part B into the mix.	
	Ensure the mixture is thoroughly mixed, this is essential, as incomplete mixing will result in poor physical properties. Megapoxy Deep Pour Grout must be applied immediately after mixing. If ambient temperature is high, Megapoxy Deep Pour Grout should be stored in a cool place until used. High ambient temperatures will lead to shortened usable life. Topping up can be carried out at a later date when convenient. If you do not require adhesion of the Megapoxy Deep Pour Grout, form work surfaces should be coated with Megapoxy Wax or silicone based release agent.	
IMPORTANT INFORMATION	It is essential that the correct mixing ratio be used and that the Part A and Part B are thoroughly mixed together before use. Inaccuracies and poor mixing will result in lower physical properties of the cured system and, if the error is sufficiently large, the system may not cure satisfactorily and discolour on ageing.	
CLEANING	To keep mixing implements and working tools clean, use Megapoxy Thinners. Use disposable rubber gloves to protect hands and maintain proper industrial hygiene. For further details refer to the Megapoxy Deep Pour Grout Safety Data Sheet.	
PACKAGING	Megapoxy Deep Pour Grout is available in 23kg kits. (approx. 14lts)	
TECHNICAL SERVICE	All purchasers of Megapoxy Products, are encouraged to avail themselves of our Technical Service for our Megapoxy Products. The information in this Bulletin is correct at time of publication, however continual research and development is being carried out and specs may change without notice.	

3 Sefton Road, Thornleigh NSW 2120 Australia P: +61 (02) 9875 3044 E: info@megapoxy.com | megapoxy.com



